

CLIMATOLOGICAL DATA FOR MAY, 1911.

DISTRICT NO. 11, CALIFORNIA.

Prof. ALEXANDER G. McADIE, District Editor.

GENERAL SUMMARY.

May was a cold month. With one exception it was the coldest on record. In fact the entire spring has been noticeably cold. The cool spell has not, however, been accompanied, as is usually the case, with an excess of precipitation. On the contrary, both the rainfall and snowfall for April and May have been below the normal. The late winter and early spring months, however, were marked by heavy precipitation. There were no extreme temperatures reported and the month, as a whole, was one unmarked by noteworthy features, except as regards the continued cold. In the interior of the State the days were moderately warm and the nights pleasant, while along the coast both days and nights were cool. There was more fog and cloudiness than usual in both sections. Ordinarily May in California is a warm month, corresponding to midsummer months in other sections; but this year May in California resembled more a late spring month on the middle Atlantic coast. The month began with light rain in the northern coast counties and moderate southerly winds. In the central and southern counties the weather remained fair. Unsettled conditions existed until the 5th, when rain was general throughout the State. Then followed a period of fair weather with the usual high northwest wind on the coast from Point Reyes to Cape Mendocino. From the 15th to the 18th the weather was unsettled, caused by the slow development of a depression in the Great Basin. Light rains were reported in many parts of the State. Then followed a period of about four days when, under the influence of an area of high pressure over the North Pacific, the weather was generally fair and temperatures seasonal. Nothing of importance occurred during the rest of the month, except that the 30th and 31st were showery days; and light thunderstorms occurred in the Sierra and certain localities in the foothills.

Ordinarily the hills are brown before the end of May, but this year the hills remained green until the end of the month notwithstanding the comparative dryness of both April and May. The snow cover diminished steadily and most of the streams ran bank full. It is probable that if any great storm had occurred during the month there would have been disastrous floods; but as none such occurred and the melting of the snow was at a uniform rate, the month passed without any interference with traffic and little if any damage to fields and crops by high waters. The water supply was abundant and no complaints have been heard regarding prospective shortage of water. In this respect the month was just the opposite of May, 1910, when the rivers all carried less water than the normal flow and it was reasonably certain that during the summer months there would be less water available for mining, power, and irrigation purposes than would be needed.

The usual high northwest summer winds from San Francisco Bay to Humboldt Bay were less prevalent this

month. There were a few days when these were reported; but taking the month as a whole there was not 50 per cent of the usual number of hours of high winds, and no extreme velocities were reported.

Compared with other Mays the month was not unlike May, 1910, in that the precipitation for both months was small, but was quite unlike it in the matter of temperature. For example, Memorial Day, 1910, was the hottest day of the year, with temperatures ranging from 90° at coast stations to 120° in the desert section; while this year on the same date temperatures ranged from 50° to 75°. There was more cloudiness this year than last. Frosts were few and did no damage. From an agricultural standpoint, weather conditions were very good, the crops making slow but steady growth. The season, however, is late and yields do not promise to be excessive. The year thus far perhaps most resembles 1899.

TEMPERATURE.

The mean temperature for the State was 3.2° below the normal. The following table gives the mean temperature for California during the time for which such records have been kept:

Year.	Mean.	Departures.	Year.	Mean.	Departures.
				F°.	F°.
1897.....	66.9	+5.4	1905.....	59.6	-1.5
1898.....	61.3	-0.2	1906.....	59.8	-1.3
1899.....	59.9	-1.6	1907.....	61.5	0.0
1900.....	64.0	+2.5	1908.....	58.0	-3.5
1901.....	62.0	+0.5	1909.....	60.4	-1.1
1902.....	60.8	-0.7	1910.....	65.5	+4.0
1903.....	63.5	+2.0	1911.....	58.3	-3.2
1904.....	64.9	+3.4			

The highest mean temperature was 77.8° at Needles, and nearly all the stations in the Salton Desert had mean temperatures for the month exceeding 75°. In May, 1910, the mean monthly temperature at Needles was 84.6° and the general mean for that section exceeded 80°. This, perhaps, gives the best estimate of the difference in temperature in the two months and shows how cool the present month has been. The lowest mean temperature was 32.5° at Tamarack, whereas during May, 1910, the mean temperature at that station was 41.4°. The natural inference is that the day temperatures were not so high as they usually are, and on the other hand the night temperatures were not so low. The highest temperature of the month occurred on the 22d at Heber, 104°. During May, 1910, a temperature of 121° was recorded at several points, and temperatures above 110° occurred generally in northern as well as southern counties. The lowest temperature in May, 1910, was 6°, and occurred at Tamarack on the 5th.

TABLE 1.—Climatological data for May, 1911. District No. 11, California.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.				Observers.	
				Mean.	Departure from the normal.			Highest.	Date.	Lowest.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
					Highest.	Date.	Greatest daily range.														
Oregon.																					
Klamath Agency.	Klamath.	4,169	3	50.6	77	30	29	14	43	0.13	0.05	1.3	3	18	7	6	s.	Edson C. Watson.			
Klamath Falls.	do.	4,100	22																W. H. Heileman.		
Lakeview.	Lake.	4,825	26																Bert Rice.		
Merrill.	Klamath.	4,070	5	47.4	80	30	22	9	44	0.78	0.28	0	5	15	2	14	w.	Mrs. Agnes Ritchson.			
Yonma.	do.	4,146	4		79	21				0.67	0.18	0	6	4	22	5		Jacob Ruecke.			
California.																					
Alameda.	Alameda.	1	59.8	88	21	44	24	34	0.21	0.20	0	2	17	11	3	nw.	Chas. E. Sears.				
Alturas.	Modoc.	4,460	7	48.3	82	21	19	6	53	0.59	0.20	2.5	7	11	16	4	sw.	Prof. C. B. Towle.			
Angiola.	Tulare.	208	11															Santa Fe Co.			
Antioch.	Contra Costa.	46	23	62.6	-2.5	88	21	50	3	0.10	-0.33	0.09	0	2			nw.	Southern Pacific Co.			
Aptos.	Santa Cruz.	102	26	59.0	+ 0.2	82	21	38	1	0.20	-0.83	0.20	0	1	14	3	9	Do.			
Arrowhead Springs.	San Bernardino.	2,000	2	59.0	91	21	35	14	48	0.82	0.46	0.00	0	3	22	3	6	Dr. E. Soegaard.			
Auburn.	Placer.	1,360	40	57.8	-4.9	88	22	35	26	0.42	-1.14	0.26	0	31	0	0	w.	Southern Pacific Co.			
Avalon.	Los Angeles.	1	59.2	79	22	49	17	24	0.00	0.00	0.00	0	0	1	26	3	2	T. S. Manning.			
Azusa.	do.	540	9	64.4	103	21	38	1	54	0.81	-0.21	0.81	0	0	0	0	0	A. P. Griffith.			
Baedad.	San Bernardino.	784	8	52.7	102	23†	58	15	33	0.00	0.00	0.00	0	0	0	0	0	Santa Fe Co.			
Bakersfield.	Kern.	404	22	61.7	-11.2	96	22	48	47	0.00	-0.18	0.00	0	1	17	13	1	E. L. White.			
Barstow.	San Bernardino.	2,105	3	57.6	95	4	33	10	49	0.02	-0.01	0.02	0	1	17	13	1	State University.			
Berkeley.	Alameda.	317	24	57.2	-0.1	86	20	42	24	0.30	-0.04	0.16	0	2	16	5	10	Southern Pacific Co.			
Biggs.	Butte.	98	12	67.0	+ 1.0	98	21†	45	6	T.	-1.06	T.	0	0	18	0	13	W. A. Chalfant.			
Bishop.	Inyo.	4,450	16															Paul E. Lodge.			
Bishop Creek.	do.	8,500	1	43.4	66	22	22	15	28	1.75	1.05	17.5	3	18	0	13	Victor Hope.				
Blocksburg.	Humboldt.	1,700	5	51.6	84	20	29	6	46	4.37	1.04	0	9	5	11	15	sw.	Southern Pacific Co.			
Blue Canon.	Placer.	4,695	12	49.4	-3.5	73	22	25	10	31	1.52	-2.23	0.90	3.0	5	16	7	8	Ray W. Ward.		
Bythe.	Riverside.	2,000	2	70.1	100	23	40	16	52	0.00	0.00	0	0	24	7	8	M. D. Witter.				
Branscomb.	Mendocino.	363	11	50.4	84	21	29	6	43	5.79	+ 3.11	1.40	0	8	16	10	5	A. J. Haun.			
Brawley.	Imperial.	-105	2	74.0	101	22	51	27	46	0.00	0.00	0	0	0	0	0	0	Cal. Gas & Electric Co.			
Brush Creek.	Butte.	2,140	7	57.2	89	24	32	20	50	1.38	0.81	0	5	13	0	18	Mrs. M. D. Chambers.				
Burney.	Shasta.	3,300	1	50.0	80	20†	35	6	45	1.40	0.70	T.	3	10	11	10	J. E. Peck.				
Calexico.	Imperial.	0	6	75.8	103	22	52	2	40	0.00	0.00	0	0	29	0	2	Southern Pacific Co.				
Caliente.	Kern.	1,290	35															Do.			
Calistoga.	Napa.	363	39	56.2	-5.3	90	25	40	26†	0.45	-0.72	0.17	0	4	20	0	11	w.			
Campbell.	Santa Clara.	217	14	54.7	-2.9	88	21	34	8	45	0.42	-0.14	0.20	0	3	16	6	9	F. M. Righter.		
Camptonville (near).	Yuba.	3,500	4	50.2	89	27	26	2	40	2.08	0.86	0	8	11	12	10	10	Cal. Gas & Electric Co.			
Cedarville.	Modoc.	4,675	17	48.6	-3.3	77	21	27	6	37	1.03	-0.57	0.30	2.5	12	19	0	sw.	T. H. Johnstone.		
Chico.	Butte.	189	41	61.4	-7.0	93	21	36	25	46	0.17	-0.79	0.10	0	4	21	2	8	G. H. Stephenson.		
Chino Flat.	Humboldt.	600	3	56.9	91	20	39	11†	45	2.01	0.83	0.83	0	8	16	3	12	O. I. Westerburg.			
Chino.	San Bernardino.	714	19	69.3	+ 4.6	96	23	52	2†	0.05	-0.28	0.05	0	1	22	3	1	Do.			
Cisco.	Placer.	5,939	40															F. P. Brackett.			
Cloverdale.	Los Angeles.	1,200	19	61.0	+ 0.3	95	21	39	1	44	1.03	+ 0.08	0.97	0	3	23	7	1	John O. Ogle.		
Colfax.	Sonoma.	340	8	58.2	90	21	37	6†	42	0.83	0.24	0	4	23	0	8	Cal. Gas & Elec. Co.				
Colusa.	Placer.	2,421	40	53.6	-7.6	81	22	33	24	33	1.16	-1.23	0.49	0	4	18	0	13	S. n.		
Corning.	Colusa.	60	8	61.0		87	21	40	6	34	0.31	-0.30	0.11	0	5	19	4	8	C. D. McCormish.		
Cuyamaca.	Tehama.	277	25	69.5	+ 1.3	90	21	50	1	24	0.24	-0.69	0.24	0	1	16	8	8	S. n.		
Daunt.	San Diego.	4,677	12	52.8	+ 3.3	76	22	33	25	31	T.	-1.84	0	0	22	5	4	L. L. Macquarie.			
Davisperville.	Tulare.	4,000	4	52.0	81	22	32	10†	38	0.19	0.19	0	1	14	7	10	D. L. Wishon.				
Deer Creek.	Yolo.	51	39	59.0	-8.9	91	21	32	6	47	T.	-0.63	0.19	0	0	16	12	3	S. H. Beckett.		
Del Monte.	Nevada.	3,700	4	48.0	76	21†	37	27	6†	37	2.62	0.97	1.5	8	16	6	9	Cal. Gas & Electric Co.			
Delta.	Monterey.	1,138	26	58.2	85	21	44	7	34	0.46	0.28	0	3	19	0	6	H. R. Warner.				
Denair.	Shasta.	126	11															Southern Pacific Co.			
Dobbins (near).	Stanislaus.	1,650	7	60.4	86	20†	40	6†	36	1.18	0.72	0	4	12	16	3	s.	Santa Fe Co.			
Dudleys.	Mariposa.	3,000	2	51.3	83	23	28	6†	41	0.71	0.57	1.0	0	1	21	5	4	Cal. Gas & Elec. Co.			
Dunnigan.	Yolo.	65	34	69.4	-0.9	88	22	56	1	24	0.15	-0.79	0.15	0	1	20	7	4	W. H. Dudley.		
Dunsmuir.	Siskiyou.	2,285	22	57.1	-0.4	95	21	40	5	40	1.04	+ 0.32	1.11	0	8	18	0	13	Do.		
Durham.	Butte.	160	16	61.4	-1.8	89	20†	35	6†	43	1.17	-1.04	0.17	0	1	20	7	4	R. W. Durham.		
El Cajon.	San Diego.	482	12	61.6	-0.8	94	21	40	2	51	0.00	-0.48	0.00	0	0	0	0	0	H. H. Kessler.		
Electra.	Amador.	725	7	63.6	99	21	40	9	55	0.70	0.45	0.45	0	3	21	3	7	Cal. Gas & Elec. Co.			
Elsinore.	Riverside.	1,234	16	63.3	-2.7	97	21†	35	16	57	0.00	-0.42	0.00	0	0	28	3	0	A. F. Schult.		
Emigrant Gap.	Placer.	5,230	39	48.8	-1.4	76	23	27	5	39	3.49	+ 0.18	1.60	2.0	6	17	2	12	Southern Pacific Co.		
Escondido.	San Diego.	657	17	61.8	-0.8	96	20	37	16	53	T.	-0.70	0	0	4	27	0	0	A. R. Moon.		
Eureka.	Humboldt.	64	25	50.6	-1.5	68	4	41	6	23	0.53	+ 0.69	1.28	0	14	3	16	12	U. S. Weather Bureau.		
Farmington.	San Joaquin.	111	32	64.6	-1.5	95	22	48	1	11	0.11	-0.80	0.11	0	1	20	9	2	F. O. Hutton.		
Folsom.	Sacramento.	252	36															E. E. Roening.			
Fordyce Dam.	Nevada.	6,500	16	38.1		90	22	20	6	34	2.35	-2.00	0.65	9.0	9	14	9	8	A. J. Burgi.		
Fouts Springs.	Colusa.	1,650	7	55.6		87	20	29	5†	46	0.52	-0.25	0	3				U. S. Weather Bureau.			
Fresno.	Fresno.	293	24	64.0	-4.4	97	22	41	6	39	0.29	-0.14	0.23	0	1	20	10	1	Southern Pacific Co.		
Fruto.	Glenn.	624	22	62.0	-5.9	82	22	42	6	T.	-1.50	T.	0	0	25	0	6	n.			
Galt.	Sacramento.	49	33	60.8	-6.3	72	26	50	5†	37	0.00	-1.06	0.00	0	0	27	4	0	Do.		
Georgetown.	Eldorado.	2,650	38	54.3	-8.1	88	21	33	24†	38	1.74	-1.07	0.82	0	8			H. D. Jarrett.</td			

TABLE 1.—Climatological data for May, 1911. District No. 11—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.			
<i>California—Continued.</i>																				
Lake Eleanor.	Tuolumne.	4,700	1	48.4	—	78	22	23	6	40	0.31	—	0.49	3.0	5	15	4	12	s.	
La Porte.	Plumas.	5,000	17	—	62.4	—	3.5	95	20	36	18	50	0.00	— 0.35	0.00	0	26	0	5	
Le Grand.	Merced.	255	11	62.4	—	3.6	100	22	39	9	55	T.	— 1.29	T.	0	27	2	2	w.	
Lemon Cove.	Tulare.	600	16	65.4	—	3.6	75	22	29	24	23	0.75	— 1.03	0.47	0	2	16	8	n.	
Lick Observatory.	Santa Clara.	4,209	23	48.4	—	3.2	75	22	29	24	23	0.24	— 0.32	0.17	0	3	18	6	w.	
Livermore.	Alameda.	485	40	58.3	—	3.1	94	21	37	97	49	0.13	— 1.23	0.06	0	2	21	6	w.	
Lodi.	San Joaquin.	45	29	60.8	—	2.6	94	22	40	42	13	0.13	— 0.23	0.06	0	0	26	5	s.	
Lone Pine.	Inyo.	2,728	6	60.2	—	87	18 [†]	33	97	45	T.	—	T.	0	0	26	5	0	w.	
Long Valley.	Lassen.	4,400	50	50.8	—	81	20	22	6	42	0.14	—	0.12	2.0	2	2	13	16	A. G. Evans.	
Los Angeles.	Los Angeles.	393	34	61.4	+ 0.9	94	21	48	16	35	0.02	— 0.41	0.01	0	0	14	0	17	U. S. Weather Bureau.	
Los Banos.	Merced.	121	24	66.9	—	1.5	93	23	54	6	0.00	— 0.39	0.00	0	0	16	6	n.		
Los Gatos.	Santa Clara.	600	24	57.0	—	3.3	91	21	38	17	36	0.59	— 0.44	0.27	0	5	11	F. H. McCullagh.		
McCloud.	Siskiyou.	3,410	1	50.6	—	84	21 [†]	22	6	46	3.54	—	0.82	1.0	7	19	8	s.		
Macdoal.	do.	4,258	4	44.6	—	77	30	21	57	49	0.15	—	0.10	1.0	2	20	10	11		
Madelaine.	Lassen.	5,270	24	44.4	—	68	14	20	57	40	0.83	—	0.25	0	7	8	12			
Magalia.	Butte.	2,321	7	54.7	—	85	23	32	5	43	2.28	—	0.90	0	4	18	11			
Mammoth Tank.	Imperial.	257	33	74.9	—	8.7	102	22	50	1	41	0.00	— 0.02	0.00	0	0	4	1		
Marysville.	Yuba.	87	40	61.1	—	7.7	90	20	39	6	46	0.14	— 0.73	0.07	0	3	24	w.		
Mecca.	Riverside.	—185	5	75.4	—	102	22	51	15	39	0.00	—	0.00	0	0	2	0	nw.		
Menlo Park.	San Mateo.	64	33	61.0	—	1.1	88	21	46	6	0.30	— 0.25	0.25	0	2	23	3	s.		
Merced.	Merced.	173	37	62.8	—	4.5	93	22	45	9	33	T.	— 0.57	T.	0	0	22	5	nw.	
Mill Creek, No. 1.	Amador.	4	51.5	—	73	19 [†]	31	0	38	1.02	—	0.65	0	7	20	9	n.			
Milton (near).	Calaveras.	060	20	60.8	—	3.8	91	21	40	6	45	0.47	— 1.02	0.43	0	2	21	10	nw.	
Modesto.	Stanislaus.	90	39	69.5	+ 0.1	93	22	52	25	2	0.16	— 0.29	0.18	0	1	23	8	n.		
Mojave.	Kern.	2,751	34	59.2	—	8.8	74	29	40	15	24	0.00	— 0.03	0.00	0	0	30	0	1	
Mokelumne Hill.	Calaveras.	1,550	18	58.2	—	0.3	87	21 [†]	35	6	35	0.71	— 0.98	0.64	0	2	14	9	s.	
Mono ranch.	Ventura.	3,210	5	53.0	—	82	21	33	9	41	0.19	—	0.19	0	1	24	2	w.		
Montague.	Siskiyou.	2,450	23	52.8	—	10.1	85	30	29	10	48	0.40	— 0.63	0.25	0	3	11	s.		
Monterey.	Monterey.	15	46	59.0	+ 0.7	82	21	50	67	44	0.45	— 0.04	0.29	0	2	24	5	nw.		
Monterio.	Kern.	4,500	12	51.2	—	6.7	74	27	34	5	32	0.12	— 1.50	0.10	0	2	16	8	n.	
Mount Tamalpais.	Marin.	2,375	17	50.5	—	3.2	79	21	35	24	27	0.77	— 0.15	0.32	0	8	17	4	nw.	
Napa City.	Napa.	20	34	56.2	—	3.7	94	21	34	6	42	0.16	— 0.75	0.16	0	1	2	28	s.	
Napa (S. B.).	do.	60	33	56.0	—	3.9	87	21	38	6	38	0.21	— 0.86	0.12	0	3	16	7	sw.	
Needles.	San Bernardino.	477	19	77.8	—	2.4	98	23	52	13	41	0.03	— 0.08	0.03	0	1	29	1	nw.	
Nellie.	San Diego.	5,350	2	53.2	—	2.4	87	21 [†]	28	61	47	1.22	— 1.00	0.63	0	7	10	10	sw.	
Nevada City.	Nevada.	2,580	19	53.2	—	2.4	87	21 [†]	28	61	47	1.22	— 1.00	0.63	0	7	10	10	s.	
Newcastle.	Placer.	970	18	53.2	—	2.4	87	21 [†]	28	61	47	1.22	— 1.00	0.63	0	7	10	10	se.	
Newhall.	Los Angeles.	1,200	34	65.1	+ 1.0	94	21	42	14	0.00	— 0.51	0.00	0	0	27	0	4	n.		
Newman.	Stanislaus.	91	22	72.2	+ 1.5	100	21	59	16 [†]	25	0.10	— 0.56	0.10	0	1	18	0	13	Cal. Gas & Elect. Co.	
Nimshew.	Butte.	2,500	7	55.6	—	82	21 [†]	30	6	43	1.18	—	0.82	0	4	13	6	12	J. R. McIntosh.	
North Bloomfield.	Nevada.	3,214	15	53.2	—	2.6	81	20 [†]	30	6	38	1.49	— 0.72	0.77	0	3	13	6	C. H. Shinu.	
North Fork.	Madera.	3,000	7	56.4	—	87	22	32	67	44	1.18	—	0.73	0	4	10	19	2	Southern Pacific Co.	
Oakdale.	Stanislaus.	156	17	59.2	—	5.7	94	21	44	6	35	0.35	— 0.51	0.18	0	2	23	8	0	
Oak Grove.	San Diego.	36	1	57.1	—	90	23	31	26	53	0.00	—	0.00	0	0	0	0	0	Cabot Observatory.	
Oakland.	Alameda.	35	34	58.4	+ 0.3	85	20 [†]	45	67	31	0.19	— 0.76	0.10	0	3	16	8	6	H. D. Brodie.	
Oceanside.	San Diego.	1,642	5	58.7	—	82	21	45	15	31	0.03	—	0.03	0	1	20	9	2	W. H. Duncan.	
Ojai Valley.	Ventura.	900	5	58.7	—	95	21	37	16	48	T.	—	T.	0	0	21	8	2	U. S. Reclamation Service.	
Orland.	Glenn.	254	29	63.3	—	7.1	95	21	40	57	40	0.06	— 0.92	0.06	0	1	21	6	n.	
Orleans.	Humboldt.	520	8	62.6	—	100	20	42	10 [†]	51	2.51	—	0.78	0	11	17	0	14	F. T. Hale.	
Oroville (near).	Butte.	250	27	62.2	—	5.0	90	20 [†]	33	11	51	0.04	— 1.58	0.04	0	1	16	3	E. D. Fairchild.	
Paterno.	do.	213	20	65.5	—	0.1	96	18	39	4	44	T.	— 1.46	T.	0	0	11	9	11	Western Pacific Co.
Palm Springs.	Riverside.	584	22	73.4	—	7.7	102	22	60	14 [†]	0.00	— 0.02	0.00	0	0	27	4	0	Southern Pacific Co.	
Pasadena.	Los Angeles.	827	21	60.8	—	2.8	95	21	40	16 [†]	43	0.02	— 0.41	0.02	0	1	27	4	0	D. Sorver.
Paso Robles.	San Luis Obispo.	800	24	57.8	—	4.1	96	22	32	15	60	0.00	— 0.55	0.00	0	0	27	3	1	Dr. F. W. Sawyer.
Peachland.	Somona.	190	15	55.2	—	4.8	88	20	34	6	45	0.78	— 1.15	0.26	0	6	19	7	5	E. H. Parnell.
Penstock Camp.	Tuolumne.	3,750	22	62.1	+ 3.6	94	22	32	25	59	1.31	— 1.14	0.48	0	3	17	2	12	Tuolumne W. P. Co.	
Placerville.	Eldorado.	1,875	22	62.1	+ 0.6	81	21	45	24 [†]	26	0.29	— 0.51	0.16	0	2	14	8	9	A. Baring-Gould.	
Point Lobos.	San Francisco.	250	15	54.5	+ 0.6	81	21	45	24 [†]	26	0.29	— 1.11	0.17	0	6	12	9	10	John Hyslop.	
Point Reyes.	Marin.	490	19	50.6	—	1.0	76	21	45	16	26	0.42	— 1.11	0.17	0	6	12	9	n.	
Porterville.	Tulare.	464	22	65.2	—	8.0	99	23	39	6	48	0.01	— 0.52	0.01	0	1	28	1	1	U. S. Weather Bureau.
Quincy.	Plumas.	3,400	16	50.2	—	4.1	81	22	25	1	50	1.08	— 1.40	0.60	0	5	19	7	5	Leslie McAuliff.
Red Bluff.	Tehama.	307	34	62.2	—	4.3	90	21	41	6	34	1.03	— 0.30	0.90	0	4	12	11	7	U. S. Forest Service.
Redding.	Shasta.	552	35	62.8	—	4.4	89	29 [†]	40	6	31	0.86	— 1.33	0.24	0	6	19	5	7	L. F. Bassett.
Redlands.	San Bernardino.	1,352	18	62.3	—	3.5	94	21	40	26	43	0.45	— 0.31	0.48	0	2	18	11	2	P. W. Moore.
Reedley.	Fresno.	347	21	63.6	—	7.2	97	22	42	9	53	0.15	— 0.58	0.15	0	1	12	0	19	Santa Fe Co.
Rialto (near).	San Bernardino.</																			

TABLE 1.—*Climatological data for May, 1911. District No. 11—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
<i>California—Continued.</i>																					
Santa Maria.....	Santa Barbara.....	220	23	62.3	- 2.5	90	21	40	3	26	0.00	- 0.51	0.00	0	0	25	0	6	w.	Edwin Morris.	
Santa Monica.....	Los Angeles.....	110	26	56.4	- 8.0	84	21	42	10†	28	0.00	- 0.43	0.00	0	0	24	6	1	w.	N. D. Ingham.	
Santa Rosa.....	Sonoma.....	181	23	55.4	- 6.6	98	20	32	24	43	0.44	- 1.34	0.16	0	5	17	6	8	sw.	M. L. McDonald, Jr.	
Selma.....	Fresno.....	311	25	67.0	- 3.5	90	22	50	5†	54	0.18	- 0.21	0.18	0	1	25	6	8	n.	Southern Pacific Co.	
Seven Oaks.....	San Bernardino.....	5,000	1	50.5	-	80	6	27	25†	51	0.30	-	0.30	2.0	1	29	0	2	M. Lewis.	
Shasta.....	Shasta.....	1,048	18	60.8	- 5.5	97	21	34	16	57	1.55	- 1.42	1.07	0	4	24	5	3	nw.	Dr. T. J. Edgecomb.	
Sierra Madre.....	Los Angeles.....	1,400	14	61.9	+ 0.3	93	21	44	16	36	0.38	-	0.90	0.39	0	2	18	4	9	sw.	Mrs. A. C. Gregory.
Sierraville.....	Sierra.....	5,000	1	46.3	-	78	21	97†	51	53	0.53	-	0.43	0.43	0	12	9	3	n.	C. D. Johnson.	
Sisson.....	Siskiyou.....	3,555	22	48.4	- 6.9	79	21	13	5†	42	1.60	- 1.05	0.63	3.0	6	20	6	5	n.	Southern Pacific Co.	
Soledad.....	Monterey.....	188	37	66.6	+ 4.3	83	5†	50	8	48	0.00	- 0.27	0.00	0	0	31	0	0	n.	Do.	
Southeast Farallon.....	San Francisco.....	30	8	51.0	-	60	3	48	28	9	0.25	-	0.17	0	7	16	10	5	nw.	U. S. Weather Bureau.	
Sonora.....	Tuolumne.....	1,825	23	57.4	-	89	22	34	6	40	0.62	- 1.24	0.62	0	1	17	12	2	w.	Chas. P. Jones.	
Squirrel Inn.....	San Bernardino.....	5,380	1	49.6	-	78	22	33	6†	27	1.75	-	1.21	T.	3	24	3	4	sw.	A. D. Frantz.	
Starling City.....	Butte.....	3,525	7	57.7	-	89	22	34	26	44	1.70	-	0.60	0	5	12	7	12	se.	Butte Co. R. R. Co.	
Stockton (S. H.).....	San Joaquin.....	23	40	61.6	- 2.5	91	21	40	6	35	0.21	- 0.46	0.21	0	1	13	17	1	nw.	State Hospital.	
Storey.....	Madera.....	296	11	61.6	- 3.7	95	22	40	5†	52	0.00	- 0.64	0.00	0	0	28	0	3	nw.	Santa Fe Co.	
Suisun.....	Solano.....	20	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Southern Pacific Co.		
Summerdale.....	Mariposa.....	5,270	15	48.1	- 1.4	74	22	24	6	28	1.03	- 1.45	0.61	5.0	3	23	5	3	J. H. Lowry.	
Summit.....	Placer.....	7,017	38	41.3	- 1.4	58	21†	30	6	24	1.52	- 0.62	0.60	15.0	6	20	2	9	sw.	Southern Pacific Co.	
Suganville.....	Lassen.....	4,175	23	48.6	- 7.3	84	21	24	14	56	0.69	- 1.06	0.19	T.	6	9	21	1	sw.	James Branham.	
Tamarack.....	Alpine.....	8,000	5	32.5	-	60	21†	11	4	41	1.39	-	0.45	11.0	4	18	2	11	s.	William Bennett.	
Tehachapi.....	Kern.....	3,964	34	59.6	+ 0.4	78	21	40	10	94	0.00	-	0.46	0.00	0	0	0	18	2	11	Southern Pacific Co.
Tehama.....	Tehama.....	220	40	61.4	- 7.5	94	20†	46	14	11	T.	- 0.85	T.	0	0	18	2	11	s.	Do.	
Tejon Rancho.....	Kern.....	1,500	9	46.8c	-	82	22	35	9	37	0.05	-	0.05	0	1	16	12	3	sw.	S. E. Bailey.	
Three Rivers.....	Tulare.....	870	1	61.4	-	94	22	37	6†	44	0.24	-	0.24	0	1	21	0	10	sw.	E. D. Barton.	
Towle.....	Placer.....	3,704	25	49.8	- 7.7	76	3†	28	24	40	2.55	- 0.31	1.10	2.0	3	21	0	1	nw.	Southern Pacific Co.	
Tracy.....	San Joaquin.....	64	31	60.4	- 2.7	92	22	52	1†	42	0.02	- 0.53	0.02	0	1	23	7	1	nw.	Do.	
Ukiah.....	Mendocino.....	620	18	57.0	- 3.4	92	21	32	6	49	1.42	+ 0.14	0.33	0	8	18	6	7	nw.	Dr. Geo. McCowen.	
Upland.....	San Bernardino.....	1,750	14	61.2	+ 1.5	94	21	46	1†	48	0.55	- 0.78	0.55	0	1	27	2	2	w.	A. P. Harwood.	
Upper Lake.....	Lake.....	1,350	26	57.2	- 2.6	91	21	34	6	43	1.10	- 0.15	0.31	0	7	20	4	7	nw.	C. M. Hammond.	
Vacaville.....	Solano.....	175	23	60.5	- 4.6	92	21	33	6	45	0.30	- 1.14	0.20	0	2	18	13	0	sw.	G. O. Coburn.	
Valley Springs.....	Calaveras.....	673	22	63.8	- 3.0	93	22	48	6†	61	0.89	- 0.42	0.00	0	3	24	2	2	nw.	Southern Pacific Co.	
Visalia.....	Tulare.....	334	23	-	-	88	21†	-	-	-	0.00	- 0.55	0.00	0	0	13	16	2	n.	Santa Fe Co.	
Warner Springs.....	San Diego.....	3,185	3	55.9	-	84	21	33	15	41	0.02	-	0.02	0	1	30	1	0	Mrs. F. S. Sandford.	
Wasco.....	Kern.....	336	11	60.6	- 7.8	85	25	33	2	56	0.00	- 0.37	0.00	0	0	25	2	4	Santa Fe Co.	
Watsonville.....	Santa Cruz.....	23	15	54.8	- 3.9	90	21	33	6†	49	0.34	- 0.32	0.19	0	4	11	13	7	sw.	Spreckels Sugar Co.	
Weitchpec.....	Humboldt.....	1,700	4	51.4	-	82	20†	32	19†	49	6.78	-	1.63	T.	13	14	11	6	nw.	M. E. Lathrop.	
Westley.....	Stanislaus.....	90	22	66.6	- 4.0	93	21	46	5	5	0.00	- 0.66	0.00	0	0	23	0	8	s.	Southern Pacific Co.	
Wheatland.....	Yuba.....	84	24	60.8	- 3.6	88	21†	39	6	37	0.17	- 1.33	0.08	0	3	15	10	6	s.	Wm. Lumbard.	
Willows.....	Glenn.....	136	32	59.8	- 8.7	89	21	38	7	39	0.16	- 0.56	0.09	0	4	18	6	7	n.	M. T. Harrington.	
Yosemite.....	Mariposa.....	3,945	7	62.7	-	85	22	34	6	55	1.28	-	0.07	0	3	13	14	4	ne.	J. P. Kelley.	

*, b, *, etc., indicate respectively, 1, 2, 3, etc., days missing from the record.

** Temperature extremes are from observed readings of dry bulb; means are computed from observed readings.

† Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for May, 1911. District No. 11, California.*

TABLE 2.—*Daily precipitation for May, 1911. District No. 11—Continued.*

TABLE 2.—*Daily precipitation for May, 1911. District No. 11—Continued.*

TABLE 2.—*Daily precipitation for May, 1911. District No. 11—Continued.*

Stations.	River basins.	Day of month.																													Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
<i>California—Contd.</i>																																			
Three Rivers.....	San Joaquin.																																.24	0.24	
Towle.....	Sacramento.																																2.55		
Tracy.....	San Joaquin.																																0.02		
Tulare.....	do.....																																0.07		
Tustin (near).....	Coast.....																																0.00		
Ukiah.....	do.....	.04	.07																													T. T. .20	1.42		
Upland.....	do.....																																0.55		
Upper Lake.....	Sacramento.	T. T.																															.31	1.10	
Upper Mattole.....	Coast.....	.04	.39	T.																													5.25		
Vacaville.....	Sacramento.																																T. T.	0.30	
Valley Springs.....	San Joaquin.																																.08	0.61	
Visalia.....	do.....																																0.00		
Warner Springs.....	Coast.....																																0.02		
Wasco.....	San Joaquin.																																0.00		
Watsonville.....	Coast.....																																.02	0.34	
Weitchpec.....	Klamath.	.15	.61	.01	.19	.04																											6.78		
West Branch.....	Sacramento.	.04	.05	.05	.06	.07	.72	.07	.55	.62	.11																				T. .08 .07	2.98			
Westley.....	San Joaquin.																																0.00		
Westpoint.....	do.....																																T. .04 .02	0.87	
West Saticoy.....	Coast.....																																	0.00	
Wheatland.....	Sacramento.	T. T.																															T.	0.17	
Willows.....	do.....	T.	.01																														T.	0.16	
Yosemite.....	San Joaquin.																																.30	.28	1.28

* Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

|| Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

MONTHLY WEATHER REVIEW.

MAY, 1911

TABLE 3.—Maximum and minimum temperatures at selected stations for May, 1911. District No. 11, California.

Date.	Lakeview, Oreg.	California.																									
		Alturas.		Barstow.		Branscomb.		Brawly.		Colusa.		Eureka.		Fresno.		Independ- ence.		Los An- geles.		Mount Tamaipais.		Nevada City.		Porter- ville.		Red Bluff.	
		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1.		60	27	52	34	92	55	63	45	62	46	75	46	—	—	68	49	54	42	62	33	77	40	62	46		
2.		60	38	86	48	52	47	90	51	73	52	57	50	80	48	—	68	50	54	42	66	43	81	44	68	55	
3.		68	37	89	55	57	36	91	54	71	50	62	50	79	51	—	71	53	54	42	71	39	82	46	73	53	
4.		71	40	95	55	62	42	94	59	75	50	68	45	85	49	—	65	52	49	43	74	36	86	48	75	49	
5.		66	33	87	53	53	34	93	56	77	50	55	43	62	49	—	65	52	46	38	53	35	79	52	57	46	
6.		63	19	83	45	57	29	87	59	72	40	54	41	70	41	—	68	50	55	38	65	28	83	39	69	41	
7.		67	27	89	46	58	33	92	56	76	43	62	42	79	47	—	75	50	51	42	65	32	85	43	72	46	
8.		60	32	86	53	51	34	93	57	73	49	53	43	70	48	—	71	53	49	37	63	40	79	44	66	50	
9.		55	22	82	47	50	32	93	60	70	42	52	45	72	45	—	69	52	55	37	65	31	81	40	70	46	
10.		67	22	81	39	65	35	87	56	76	48	53	46	80	47	—	79	51	64	49	72	31	83	41	78	50	
11.		74	25	90	49	63	36	92	56	78	46	53	47	86	47	—	71	54	67	52	76	33	86	42	82	50	
12.		70	35	94	45	62	35	92	55	70	46	52	48	80	53	—	66	54	59	41	71	35	87	44	76	56	
13.		54	30	86	55	61	34	92	55	71	43	53	47	72	48	—	62	54	51	38	65	36	85	45	69	49	
14.		56	27	69	59	60	34	82	60	73	55	52	44	73	47	—	61	51	60	46	70	30	83	46	70	54	
15.		62	29	77	45	55	36	79	56	69	48	52	48	76	48	—	62	51	51	39	64	35	77	44	67	45	
16.		57	35	85	48	53	39	87	53	68	49	52	45	71	49	—	67	48	47	37	57	38	79	42	65	50	
17.		53	37	84	54	47	39	88	58	63	50	54	47	74	49	—	68	52	46	38	54	37	80	43	60	50	
18.		52	35	85	55	45	36	92	59	72	53	54	48	73	51	—	68	52	51	43	61	44	80	44	67	53	
19.		60	23	86	56	71	36	93	56	74	52	54	45	78	46	—	70	55	67	45	76	32	86	45	77	51	
20.		75	24	86	47	80	37	91	62	84	60	64	43	91	55	—	86	56	74	60	83	41	88	46	88	53	
21.		82	29	92	44	84	44	97	60	87	53	58	45	94	57	—	94	59	79	65	87	40	95	48	90	56	
22.		78	37	93	45	81	42	101	55	84	57	55	48	97	59	—	86	58	78	62	87	44	99	52	88	61	
23.		72	40	81	60	75	37	97	62	81	52	52	46	88	53	—	69	57	63	35	72	55	89	57	75	57	
24.		60	30	86	57	68	31	94	65	67	43	54	44	72	47	—	67	56	52	35	73	34	88	42	66	46	
25.		61	24	72	44	65	31	84	61	77	42	52	46	73	46	—	66	54	56	38	67	28	86	44	76	47	
Mns.		65.4	31.2	85.3	49.9*	63.9	36.8	90.8	57.1*	74.3*	48.8*	55.2	46.0	78.5	49.5	—	69.9	52.9	57.5	43.5	69.0	36.8	85.0	45.3	73.3	51.2	

Date.	California.																									
	Redlands.		Sacramento.		San Diego.		San Fran- cisco.		San Jose.		San Luis Obispo.		Santa Bar- bara.		Santa' Rosa.		Sisson.		Stockton.		Summit.		Susanville.		Yosemite.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.	76	42	67	44	62	51	63	48	69	37	63	42	65	50	62	36	60	39	66	42	42	30	61	32	67	31
2.	76	43	69	52	64	50	60	52	70	48	60	46	66	46	66	53	51	39	68	46	42	36	62	33	76	34
3.	79	47	68	47	65	54	62	50	67	42	62	44	63	47	68	42	52	45	68	47	48	34	66	36	76	35
4.	82	49	68	48	63	55	60	51	71	44	62	46	66	48	65	43	54	34	68	46	50	43	69	35	78	35
5.	72	52	61	48	64	56	57	48	62	46	60	49	71	55	61	46	45	23	60	47	43	25	51	35	73	30
6.	76	46	69	44	65	56	62	49	67	40	67	47	72	55	69	33	58	31	64	40	40	20	56	25	68	24
7.	82	45	62	46	64	52	57	48	64	38	72	48	71	53	65	36	57	32	68	42	42	28	67	30	72	30
8.	79	47	67	47	66	56	58	49	62	47	65	48	68	44	68	39	48	32	68	44	42	28	55	31	76	30
9.	77	45	68	44	64	54	63	48	67	44	65	48	76	45	70	39	56	33	68	44	44	24	57	30	75	28
10.	85	45	77	49	67	52	68	48	73	39	76	46	76	44	73	38	59	35	72	43	48	30	61	27	75	28
11.	80	49	79	49	63	55	63	47	73	41	69	44	65	55	72	37	60	36	79	44	48	30	69	32	76	29
12.	72	51	70	50	62	56	60	48	67	45	62	48	58	53	75	40	69	31	68	47	50	36	68	34	74	37
13.	68	51	70	46	62	57	61	47	64	39	60	43	64	54	70	40	53	36	74	46	46	34	55	33	67	31
14.	59	49	71	55	60	55	66	48	72	39	55	42	63	43	76	37	59	30	74	44	38	29	60	24	68	31
15.	64	47	58	50	61	53	53	48	61	47	58	48	63	42	71	39	60	34	70	45	44	35	62	33	70	31
16.	71	41	62	50	62	49	58	49	62	47	60	45	69	43	61	44	61	35	71	47	36	28	62	32	66	30
17.	71	46	60	47	64	53	59	48	66	45	58	49	68	47	51	49	46	36	72	47	38	28	59	31	65	30
18.	73	47	68	54	64	54	60	53	64	47	62	46	76	47	67	67	67	53	68	54	39	52	36	73	30	
19.	83	63	74	55	62	58	77	53	77	41	81	54	77	52	83	44	60	36	78	50	38	36	61	29	75	31
20.	89	50	83	56	68	56																				